

Project Title	Funding	Strategic Plan Objective	Institution
CD8 + T lymphocyte function in autism	\$27,250	Q2.S.A	University of California, Davis
CD8 + T lymphocyte function in autism	\$27,250	Q2.S.A	University of California, Davis
Primate models of autism	\$724,953	Q2.S.A	University of California, Davis
Maternal inflammation alters fetal brain development via tumor necrosis factor-alpha	\$12,928	Q2.S.A	Stanford University
Modulation of neuronal cysteine uptake and redox status by morphine, gluten/casein-derived opiates and naltrexone	\$44,000	Q2.S.A	Northeastern University School of Pharmacy
The pathogenesis of autism: Maternal antibody exposure in the fetal brain	\$0	Q2.S.A	The Feinstein Institute for Medical Research
Relationship between celiac disease and autism	\$8,000	Q2.S.A	Health Research Institute
Mechanisms of mitochondrial dysfunction in autism	\$489,354	Q2.S.A	Georgia State University
Neuroimmunologic investigations of autism spectrum disorders (ASD)	\$348,146	Q2.S.A	National Institutes of Health (NIH)
Project 2: Immunological susceptibility of autism	\$136,181	Q2.S.A	University of California, Davis
A mitochondrial etiology of autism	\$597,884	Q2.S.A	University of California, Irvine
Autism: Role of oxytocin	\$6,505	Q2.S.A	University of Kansas Medical Center
A role for immune molecules in cortical connectivity: Potential implications for autism	\$28,000	Q2.S.A	University of California, Davis
Is autism a mitochondrial disease?	\$0	Q2.S.A	University of California, Davis
Redox abnormalities as a vulnerability phenotype for autism and related alterations in CNS development	\$0	Q2.S.A	State University of New York at Potsdam
How does IL-6 mediate the development of autism-related behaviors?	\$28,000	Q2.S.A	California Institute of Technology
Redox abnormalities as a vulnerability phenotype for autism and related alterations in CNS development	\$0	Q2.S.A	Arkansas Children's Hospital Research Institute
Impact of innate immunity on T and B cell differentiation in autistic children/Altered TLR response in a subset of children with regressive autism	\$33,000	Q2.S.A	University of Medicine & Dentistry of New Jersey
Impact of innate immunity on T and B cell differentiation in autistic children/Altered TLR response in a subset of children with regressive autism	\$25,000	Q2.S.A	University of Medicine & Dentistry of New Jersey
Impact of innate immunity on regressive autism	\$25,000	Q2.S.A	University of Medicine & Dentistry of New Jersey
Repository for tissues from children with and without autism	\$25,000	Q2.S.A	Massachusetts General Hospital
Regulation of inflammatory Th17 cells in autism spectrum disorder	\$150,000	Q2.S.A	New York University School of Medicine
Immune molecules and cortical synaptogenesis: Possible implications for the pathogenesis of autism	\$127,500	Q2.S.A	University of California, Davis
Influence of oxidative stress on transcription and alternative splicing of methionine synthase in autism	\$0	Q2.S.A	Northeastern University
Redox abnormalities as a vulnerability phenotype for autism and related alterations in CNS development	\$0	Q2.S.A	University of Rochester

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Maternal infection and autism: Impact of placental sufficiency and maternal inflammatory responses on fetal brain development	\$127,500	Q2.S.A	Stanford University
A non-human primate autism model based on maternal infection	\$446,873	Q2.S.A	California Institute of Technology
Gene-environment interactions in the pathogenesis of autism-like neurodevelopmental damage: A mouse model	\$0	Q2.S.A	Johns Hopkins University School of Medicine
Consequences of maternal antigen exposure on offspring immunity: An animal model of vertical tolerance	\$138,915	Q2.S.A	The Fox Chase Cancer Center
Evaluation and treatment of copper/zinc imbalance in children with autism	\$7,395	Q2.S.A	Penn State Milton S. Hershey Medical Center
Steroid receptors and brain sex differences	\$301,301	Q2.S.B	University of Wisconsin - Madison
The neural basis of sexually dimorphic brain function	\$349,395	Q2.S.B	University of Massachusetts Amherst
Sex chromosomes, epigenetics, and neurobehavioral disease	\$374,036	Q2.S.B	University of Virginia
A sex-specific dissection of autism genetics	\$75,000	Q2.S.B	University of California, San Francisco
A sex-specific dissection of autism genetics	\$270,375	Q2.S.B	University of California, San Francisco
An open resource for autism iPSCs and their derivatives	\$617,911	Q2.S.C	Children's Hospital of Orange County
Autism Celloidin Library	\$109,000	Q2.S.C	Mount Sinai School of Medicine
Elucidation of the developmental role of JAKMIP1, an autism-susceptibility gene	\$30,418	Q2.S.D	University of California, Los Angeles
Genetic and developmental analyses of fragile X syndrome	\$532,205	Q2.S.D	Vanderbilt University
Role of excitation and inhibition in Rett syndrome	\$32,922	Q2.S.D	Baylor College of Medicine
Molecular basis of autism associated with human adenylosuccinate lyase gene defects	\$30,000	Q2.S.D	University of Delaware
Face processing and brain function associated with autistic symptoms in fragile X	\$73,500	Q2.S.D	University of Wisconsin - Madison
Chromatin alterations in Rett syndrome	\$271,798	Q2.S.D	University of Massachusetts Medical School
Olfactory abnormalities in the modeling of Rett syndrome	\$358,750	Q2.S.D	Johns Hopkins University
Visual system connectivity in a high-risk model of autism	\$41,000	Q2.S.D	Children's Hospital Boston
Connectopathic analysis of autism	\$78,150	Q2.S.D	Harvard University
Sex differences in early brain development: Brain development in Turner syndrome	\$150,049	Q2.S.D	University of North Carolina at Chapel Hill
Investigation of postnatal drug intervention's potential in rescuing the symptoms of fragile X syndrome in adult mice	\$30,000	Q2.S.D	Massachusetts Institute of Technology
Aberrant synaptic function caused by TSC mutation in autism	\$173,726	Q2.S.D	Columbia University

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TrkB agonist(s), a potential therapy for autism spectrum disorders	\$269,500	Q2.S.D	University of California, Los Angeles
Probing a monogenic form of autism from molecules to behavior	\$187,500	Q2.S.D	Stanford University
Gene silencing in fragile X syndrome	\$312,908	Q2.S.D	National Institutes of Health (NIH)
The role of the autism-associated gene tuberous sclerosis complex 2 (TSC2) in presynaptic development	\$54,000	Q2.S.D	University of California, San Diego
Neural circuit deficits in animal models of Rett syndrome	\$0	Q2.S.D	Cold Spring Harbor Laboratory
White matter connections of the face processing network in children and adults	\$41,176	Q2.S.D	Stanford University
Elucidating the roles of SHANK3 and FXR in the autism interactome	\$403,492	Q2.S.D	Baylor College of Medicine
Role of neuroligins in long-term plasticity at excitatory and inhibitory synapses	\$57,194	Q2.S.D	Albert Einstein College of Medicine of Yeshiva University
Neurologin regulation of central GABAergic synapses	\$78,000	Q2.S.D	Duke University
Synaptic analysis of neuroligin 1 function	\$50,054	Q2.S.D	Stanford University
BDNF and the restoration of spine plasticity with autism spectrum disorders	\$571,019	Q2.S.D	University of California, Irvine
Mouse models of the neuropathology of tuberous sclerosis complex	\$258,344	Q2.S.D	University of Texas Health Science Center at Houston
The microRNA pathway in translational regulation of neuronal development	\$417,813	Q2.S.D	J. David Gladstone Institutes
Cortical circuit changes and mechanisms in a mouse model of fragile X syndrome	\$293,198	Q2.S.D	University of Texas Southwestern Medical Center
Cortical circuit changes and mechanisms in a mouse model of fragile X syndrome (supplement)	\$47,848	Q2.S.D	University of Texas Southwestern Medical Center
Fundamental mechanisms of GPR56 activation and regulation	\$135,625	Q2.S.D	Emory University
High content screens of neuronal development for autism research	\$207,931	Q2.S.D	University of California, San Diego
A longitudinal MRI study of brain development in fragile X syndrome	\$622,099	Q2.S.D	University of North Carolina at Chapel Hill
Genetics and physiology of social anxiety in fragile X	\$160,398	Q2.S.D	University of California, Davis
Cell type-based genomics of developmental plasticity in cortical GABA interneurons	\$252,000	Q2.S.D	Cold Spring Harbor Laboratory
Cell-based genomic analysis in mouse models of Rett syndrome	\$498,790	Q2.S.D	Cold Spring Harbor Laboratory
Cellular and molecular alterations in GABAergic inhibitor circuits by mutations in MeCP2	\$441,032	Q2.S.D	Cold Spring Harbor Laboratory

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Developmental versus acute mechanisms mediating altered excitatory synaptic function in the fragile X syndrome mouse model	\$0	Q2.S.D	University of Texas Southwestern Medical Center
Coordinated control of synapse development by autism-linked genes	\$75,000	Q2.S.D	University of Texas Southwestern Medical Center
An adult brain-specific mouse model of neuronal TSC inactivation	\$60,000	Q2.S.D	Massachusetts General Hospital
Translation regulation in hippocampal LTP and LTD	\$375,817	Q2.S.D	New York University
Regulation of 22q11 genes in embryonic and adult forebrain	\$305,105	Q2.S.D	University of North Carolina at Chapel Hill
Autism iPSCs for studying function and dysfunction in human neural development	\$317,520	Q2.S.D	Scripps Research Institute
An investigation of neuropsychological endophenotypes in autism and fragile X	\$73,938	Q2.S.D	University of North Carolina at Chapel Hill
The functional link between DISC1 and neuroligins: Two genetic factors in the etiology of autism	\$110,250	Q2.S.D	Children's Memorial Hospital, Chicago
Mouse models of human autism spectrum disorders: Gene targeting in specific brain regions	\$100,000	Q2.S.D	University of Texas Southwestern Medical Center
Clinical correlations of contiguous gene syndromes	\$21,923	Q2.S.D	Baylor College of Medicine
Augmentation of the cholinergic system in fragile X syndrome: A double-blind placebo-controlled randomized study of donepezil	\$240,000	Q2.S.D	Stanford University
Identification of UBE3A substrates using proteomic profiling in Drosophila	\$0	Q2.S.D	University of Tennessee Health Science Center
Proteomics in Drosophila to identify autism candidate substrates of UBE3A (supplement)	\$10,000	Q2.S.D	University of Tennessee Health Science Center
Proteomics in Drosophila to identify autism candidate substrates of UBE3A	\$319,550	Q2.S.D	University of Tennessee Health Science Center
Relation of sleep epileptiform discharges to insomnia and daytime behavior	\$60,000	Q2.S.E	Vanderbilt University
Neural dissection of hyperactivity/inattention in autism	\$1,179,863	Q2.S.E	New York University School of Medicine
ACE Center: Structural and chemical brain imaging of autism	\$521,038	Q2.S.E	University of Washington
Selective disruption of hippocampal dentate granule cells in autism: Impact of PTEN deletion	\$375,000	Q2.S.E	Cincinnati Children's Hospital Medical Center
Gastrointestinal functions in autism	\$0	Q2.S.E	University at Buffalo, The State University of New York
Molecular components of A-type K <sup>+</sup> channels	\$352,538	Q2.S.E	New York University School of Medicine
Treatment of medical conditions among individuals with autism spectrum disorders	\$535,209	Q2.S.E	National Institutes of Health (NIH)
Treatment of sleep problems in children with autism spectrum disorder with melatonin: A double-blind, placebo-controlled study	\$6,814	Q2.S.E	Baylor College of Medicine

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Understanding the cognitive impact of early life epilepsy	\$845,000	Q2.S.E	Children's Hospital Boston
Etiology of sleep disorders in ASD: Role of inflammatory cytokines	\$0	Q2.S.E	University of Maryland, Baltimore
Neurological diseases due to inborn errors of metabolism	\$17,838	Q2.S.E	University of Texas Southwestern Medical Center
Regulation of MET expression in autism disorder and forebrain ontogeny	\$25,800	Q2.S.G	Vanderbilt University
The brain genomics superstruct project	\$75,000	Q2.S.G	President & Fellows of Harvard College
Autism-specific mutation in DACT1: Impact on brain development in a mouse model	\$193,125	Q2.S.G	University of California, San Francisco
Self-injurious behavior: An animal model of an autism endophenotype	\$107,918	Q2.S.G	University of Florida
Using induced pluripotent stem cells to identify cellular phenotypes of autism	\$800,000	Q2.S.G	Stanford University
Mechanisms for 5-HTT control of PPI and perseverative behavior using mouse models	\$345,375	Q2.S.G	University of Chicago
A systematic test of the relation of ASD heterogeneity to synaptic function	\$898,037	Q2.S.G	Stanford University
Rapid characterization of balanced genomic rearrangements contributing to autism	\$49,343	Q2.S.G	Massachusetts General Hospital
Cellular and genetic correlates of increased head size in autism spectrum disorder	\$203,943	Q2.S.G	Yale University
Patient iPS cells with copy number variations to model neuropsychiatric disorders	\$210,546	Q2.S.G	The Hospital for Sick Children
Exploring the neuronal phenotype of autism spectrum disorders using induced pluripotent stem cells	\$258,420	Q2.S.G	Stanford University
A neuroimaging study of twin pairs with autism	\$626,552	Q2.S.G	Stanford University
Multimodal neuroimaging of white matter in autism	\$472,805	Q2.S.G	Massachusetts General Hospital
Autism: Neuropeptide hormones and potential pathway genes	\$185,897	Q2.S.G	University of Illinois at Chicago
fMRI evidence of genetic influence on rigidity in ASD	\$28,000	Q2.S.G	University of Michigan
Autism: The neural substrates of language in siblings	\$56,140	Q2.S.G	Boston University Medical Campus
Neural correlates of serotonin transporter gene polymorphisms and social impairment in ASD	\$0	Q2.S.G	University of Michigan
Language processing in children with 22q11 deletion syndrome and autism	\$120,000	Q2.S.G	Emory University
Longitudinal neurogenetics of atypical social brain development in autism	\$292,163	Q2.S.G	Yale University
Neural circuitry of social cognition in the broad autism phenotype	\$562,311	Q2.S.G	University of North Carolina at Chapel Hill

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Neurexin function in vivo: Implications for autism and mental retardation	\$392,500	Q2.S.G	University of Texas Southwestern Medical Center
Interdisciplinary investigation of biological signatures of autism subtypes	\$1,429,402	Q2.L.A	University of California, Davis
Impacts of parenting adolescents & adults with autism	\$496,331	Q2.L.A	University of Wisconsin - Madison
Functional MRI of attention regulation in people with and without autism	\$3,452	Q2.L.A	Georgetown University
MRI study of brain development in school age children with autism	\$149,864	Q2.L.A	University of North Carolina at Chapel Hill
Investigation of the link between early brain enlargement and abnormal functional connectivity in autism spectrum disorders	\$124,816	Q2.L.A	University of Washington
Pragmatic skills of young males and females with fragile X syndrome	\$517,519	Q2.L.A	University of North Carolina at Chapel Hill
Assessing information processing and capacity for understanding language in non-verbal children with autism	\$280,105	Q2.L.B	Rutgers, The State University of New Jersey; City University of New York
Observational and electrophysiological assessments of temperament in infants at risk for autism spectrum disorders	\$30,000	Q2.L.B	University of Washington
Innovative assessment methods for autism: A proof of principle investigation of "nonverbal" autism	\$72,116	Q2.L.B	McMaster University
Early biologic markers for autism	\$60,000	Q2.L.B	Kaiser Permanente Division of Research
Functional neuroimaging of psychopharmacologic intervention for autism	\$155,901	Q2.L.B	University of North Carolina at Chapel Hill
Cerebral asymmetry and language in autism	\$6,798	Q2.L.B	University of California, Los Angeles
Neuroimaging of autism spectrum disorders	\$6,798	Q2.L.B	University of California, Los Angeles
Language and social communication in autism	\$6,798	Q2.L.B	University of California, Los Angeles
Language functioning in optimal outcome children with a history of autism	\$457,153	Q2.L.B	University of Connecticut
Defining high and low risk expression of emotion in infants at risk for autism	\$30,000	Q2.L.B	University of Pittsburgh
ACE Center: Administrative Core	\$147,818	Q2.L.B	Yale University
Language and social communication in autism	\$3,406	Q2.L.B	University of California, Los Angeles
A study of autism	\$108,701	Q2.L.B	University of Pennsylvania
Neuroimaging and symptom domains in autism	\$6,798	Q2.L.B	University of California, Los Angeles
Cognitive control and social engagement among younger siblings of children with autism	\$28,000	Q2.L.B	University of Miami
Development of ventral stream organization	\$131,870	Q2.L.B	University of Pittsburgh

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Characterization of the mirror neuron system in 3-9 month old infants using the BabySQUID imaging system	\$4,748	Q2.Other	University of New Mexico
Neural basis for the production and perception of prosody	\$81,500	Q2.Other	University of Southern California
Architecture of myelinated axons linking frontal cortical areas	\$54,000	Q2.Other	Boston University
Investigation of cortical folding complexity in children with autism, their autism-discordant siblings, and controls	\$0	Q2.Other	Stanford University
Understanding perception and action in autism	\$32,000	Q2.Other	Kennedy Krieger Institute
Social and affective components of communication	\$152,186	Q2.Other	The Salk Institute for Biological Studies
Neural basis of audiovisual integration during language comprehension in autism	\$30,000	Q2.Other	University of Rochester
Taste, smell, and feeding behavior in autism: A quantitative traits study (supplement)	\$151,884	Q2.Other	University of Rochester
Taste, smell, and feeding behavior in autism: A quantitative traits study	\$592,498	Q2.Other	University of Rochester
Engrailed and the control of synaptic circuitry in Drosophila	\$112,500	Q2.Other	University of Puerto Rico Medical Sciences Campus
ACE Center: The Imaging Core (supplement)	\$54,458	Q2.Other	University of California, Los Angeles
ACE Center: The Imaging Core	\$326,381	Q2.Other	University of California, Los Angeles
Past, present, and future-oriented thinking about the self in children with autism spectrum disorder	\$61,000	Q2.Other	City University London
Distinct function of the neuroligin 3 postsynaptic adhesion complex	\$37,784	Q2.Other	Columbia University
Greater New York Autism Center of Excellence - Clinical Core	\$1,224	Q2.Other	Mount Sinai School of Medicine
Gross morphological correlates to the minicolumnopathy of autism	\$287,554	Q2.Other	University of Louisville
Development of brain connectivity in autism	\$312,916	Q2.Other	New York School of Medicine
Characterization of the pathological and biochemical markers that correlate to the clinical features of autism	\$0	Q2.Other	Research Foundation for Mental Hygiene, Inc.
Cortical mechanisms underlying visual motion processing impairments in autism	\$60,000	Q2.Other	Harvard Medical School/McLean Hospital
Attentional abnormalities in autism: An electrophysiological study of the basal forebrain and central nucleus of the amygdala	\$60,000	Q2.Other	University of California, San Diego
The neural correlates of transient and sustained executive control in children with autism spectrum disorder	\$60,000	Q2.Other	University of Missouri
Neuroligins and neurexins as autism candidate genes: Study of their association in synaptic connectivity	\$60,000	Q2.Other	University of California, San Diego

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Analysis of brain microstructure in autism using novel diffusion MRI approaches	\$59,992	Q2.Other	Washington University School of Medicine
ACE Center: Diffusion tensor MRI + histopathology of brain microstructure + fiber pathways (supplement)	\$2	Q2.Other	University of Pittsburgh
ACE Center: Diffusion tensor MRI + histopathology of brain microstructure + fiber pathways	\$12	Q2.Other	University of Pittsburgh
The role of the amygdala in autism	\$152,144	Q2.Other	University of California, Davis
fMRI studies of neural dysfunction in autistic toddlers	\$614,468	Q2.Other	University of California, San Diego
Stereological analyses of neuron numbers in frontal cortex from age 3 years to adulthood in autism	\$0	Q2.Other	University of California, San Diego
Restricted and repetitive behaviors in young children with autism (supplement)	\$23,131	Q2.Other	Duke University
ACE Center: Mirror neuron and reward circuitry in autism (supplement)	\$51,364	Q2.Other	University of California, Los Angeles
ACE Center: Mirror neuron and reward circuitry in autism	\$307,838	Q2.Other	University of California, Los Angeles
A combined fMRI-TMS study on the role of the mirror neuron system in social cognition: Moving beyond correlational evidence	\$127,500	Q2.Other	University of California, Los Angeles
Neurobiological mechanisms of insistence on sameness in autism	\$28,000	Q2.Other	University of Illinois at Chicago
Connectivity of anterior cingulate cortex networks in autism	\$265,044	Q2.Other	New York University School of Medicine
Molecular mechanisms regulating synaptic strength (supplement)	\$32,258	Q2.Other	Washington University in St. Louis
Molecular mechanisms regulating synaptic strength	\$299,250	Q2.Other	Washington University in St. Louis
Presence of clostridia in children with and without ASD	\$12,054	Q2.Other	Center for Autism and Related Disorders (CARD)
Description and assessment of sensory abnormalities in ASD	\$18,968	Q2.Other	Center for Autism and Related Disorders (CARD)
Evaluation of sleep disturbance in children with ASD	\$27,456	Q2.Other	Center for Autism and Related Disorders (CARD)
The neural substrates of repetitive behaviors in autism	\$54,436	Q2.Other	Boston University Medical Campus
Testing neurological models of autism	\$315,526	Q2.Other	California Institute of Technology
Towards an endophenotype for amygdala dysfunction	\$384,145	Q2.Other	California Institute of Technology
Cerebellar anatomic and functional connectivity in autism spectrum disorders	\$251,419	Q2.Other	University of Texas at Austin
RNA-Seq studies of gene expression in cells and networks in FI and ACC in autism	\$564,301	Q2.Other	California Institute of Technology
Time perception and timed performance in autism	\$89,871	Q2.Other	Kennedy Krieger Institute
Anatomy of primate amygdaloid complex	\$106,669	Q2.Other	University of California, Davis



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A model-based investigation of face processing in autism	\$12,950	Q2.Other	Georgetown University
Psychophysiological mechanisms of emotion expression	\$0	Q2.Other	Georgia State University
Gamma band dysfunction as a local neuronal connectivity endophenotype in autism	\$78,797	Q2.Other	University of Colorado Denver
Regulation of activity-dependent ProSAP2 synaptic dynamics	\$41,176	Q2.Other	Stanford University
The development and redevelopment of lexical and sublexical representations	\$380,273	Q2.Other	The Research Foundation of the State University of New York
Neural mechanisms for social cognition in autism spectrum disorders	\$229,730	Q2.Other	Massachusetts Institute of Technology
Physiological and behavioral characterization of sensory dysfunction in autism	\$77,250	Q2.Other	Thomas Jefferson University
The fusiform and amygdala in the pathobiology of autism	\$311,951	Q2.Other	Children's Hospital of Philadelphia
Behavioral and sensory evaluation of auditory discrimination in autism	\$150,220	Q2.Other	University of Massachusetts Medical School
Are neuronal defects in the cerebral cortex linked to autism?	\$0	Q2.Other	Memorial Sloan-Kettering Cancer Center
Visual perspective-taking and the acquisition of American Sign Language by deaf children with autism	\$28,000	Q2.Other	University of Texas at Austin
Autism spectrum disorders and the visual analysis of human motion	\$250,000	Q2.Other	Rutgers, The State University of New Jersey
Autistic endophenotypes and their associations to oxytocin and cholesterol	\$84,055	Q2.Other	Mount Sinai School of Medicine
Upgrade to multiuser 3T magnetic resonance imager	\$500,000	Q2.Other	University of Kentucky
Multisensory integration and temporal synchrony in autism	\$34,176	Q2.Other	University of Rochester
Cognitive control in autism	\$146,960	Q2.Other	University of California, Davis
ACE Center: Neuroimaging studies of connectivity in ASD	\$337,540	Q2.Other	Yale University
Structural brain differences between autistic and typically-developing siblings	\$12,030	Q2.Other	Stanford University
Phonological processing in the autism spectrum	\$32,000	Q2.Other	Heriot-Watt University
ACE Center: Development of categorization, facial knowledge in low & high functioning autism	\$386,379	Q2.Other	University of Pittsburgh
ACE Center: Development of categorization, facial knowledge in low & high functioning autism (supplement)	\$81,816	Q2.Other	University of Pittsburgh
ACE Center: Cognitive affective and neurochemical processes underlying IS in autism	\$377,577	Q2.Other	University of Illinois at Chicago

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Imaging synaptic neurexin-neuligin complexes by proximity biotinylation: Applications to the molecular pathogenesis of autism	\$49,000	Q2.Other	Massachusetts Institute of Technology
Imaging brain and movement in ASD	\$270,296	Q2.Other	University of California, San Diego
Functional anatomy of face processing in the primate brain	\$1,678,309	Q2.Other	National Institutes of Health (NIH)
Morphogenesis and function of the cerebral cortex	\$399,013	Q2.Other	Yale University
Neuroimaging of top-down control and bottom-up processes in childhood ASD	\$403,739	Q2.Other	Georgetown University
Radiofrequency transmit and receive upgrade for 3T research scanner	\$500,000	Q2.Other	Kennedy Krieger Institute
The mirror neuron system in the monkey and its role in action understanding	\$184,470	Q2.Other	Massachusetts General Hospital
Murine genetic models of autism	\$172,390	Q2.Other	Vanderbilt University
Using genetically modified mice to explore the neuronal network involved in social recognition	\$60,000	Q2.Other	Haifa University
Optical analysis of circuit-level sensory processing in the cerebellum	\$0	Q2.Other	Princeton University
Characterization of the pathological and biochemical markers that correlate to the clinical features of autism	\$0	Q2.Other	Research Foundation for Mental Hygiene, Inc.
Role of autism-susceptibility gene, CNTNAP2, in neural circuitry for vocal communication	\$573,420	Q2.Other	University of California, Los Angeles
MEG investigation of phonological processing in autism	\$28,000	Q2.Other	University of Colorado Denver
Characterization of the pathological and biochemical markers that correlate to the clinical features of autism	\$0	Q2.Other	Research Foundation for Mental Hygiene, Inc.
Imaging signal transduction in single dendritic spines	\$390,000	Q2.Other	Duke University
Neural mechanisms of social cognition and bonding	\$31,387	Q2.Other	Emory University
Regulation of gene expression in the brain	\$2,125,882	Q2.Other	National Institutes of Health (NIH)
Informational and neural bases of empathic accuracy in autism spectrum disorder	\$0	Q2.Other	Columbia University
MRI studies of cognition and sensorimotor integration	\$7,770	Q2.Other	Georgetown University
BDNF secretion and neural precursor migration	\$0	Q2.Other	Dana-Farber Cancer Institute
Multisensory processing in autism	\$104,607	Q2.Other	University of North Carolina at Chapel Hill
Neural mechanisms of attentional networks in autism	\$490	Q2.Other	Mount Sinai School of Medicine
Anterior cingulate and fronto-insular related brain networks in autism	\$194,745	Q2.Other	Mount Sinai School of Medicine
GABAergic dysfunction in autism (supplement)	\$63,950	Q2.Other	University of Minnesota
GABAergic dysfunction in autism	\$294,344	Q2.Other	University of Minnesota
Mimicry and imitation in autism spectrum disorders	\$31,685	Q2.Other	University of Connecticut

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Real time PCR for yeasts	\$20,000	Q2.Other	Brentwood Biomedical Research, Inc.
The role of Fox-1 in neurodevelopment and autistic spectrum disorder	\$139,471	Q2.Other	University of California, Los Angeles
Neural mechanisms underlying an extended multisensory temporal binding window in ASD	\$28,000	Q2.Other	Vanderbilt University
Deriving neuroprogenitor cells from peripheral blood of individuals with autism	\$46,597	Q2.Other	University of Utah
Dendritic organization within the cerebral cortex in autism	\$144,822	Q2.Other	The Open University
Multisensory integration of faces and voices in the primate temporal lobe	\$335,983	Q2.Other	Princeton University
Reward system in autism	\$181,125	Q2.Other	Kennedy Krieger Institute
The effects of Npas4 and Sema4D on inhibitory synapse formation	\$127,500	Q2.Other	Children's Hospital Boston
Neural basis of socially driven attention in children with autism	\$28,000	Q2.Other	University of California, Los Angeles
fMRI study of self-produced tactile stimulation in autistic adolescents	\$244	Q2.Other	Mount Sinai School of Medicine
Neurobiology of affective prosody perception in autism	\$190,000	Q2.Other	Washington University in St. Louis
Development of the functional neural systems for face expertise	\$524,017	Q2.Other	University of California, San Diego
Motivation, self-monitoring, and family process in autism	\$304,247	Q2.Other	University of Miami
Integrative functions of the planum temporale	\$452,524	Q2.Other	University of California, Irvine
Neocortical regionalization: Analysis of genetic and epigenetic influences	\$75,000	Q2.Other	University of California, Riverside
Functional neuroanatomy of developmental changes in face processing	\$302,360	Q2.Other	University of Kentucky
Functional neuroanatomy of developmental changes in face processing (supplement)	\$7,712	Q2.Other	University of Kentucky
Engrailed genes and cerebellum morphology, spatial gene expression and circuitry	\$474,750	Q2.Other	Memorial Sloan-Kettering Cancer Center
MRI system for neuroimaging typical and atypical cognitive and social development	\$2,000,000	Q2.Other	Carnegie Mellon University
ACE Center: Systems connectivity + brain activation: Imaging studies of language + perception (supplement)	\$94,022	Q2.Other	University of Pittsburgh
ACE Center: Systems connectivity + brain activation: Imaging studies of language + perception	\$444,021	Q2.Other	University of Pittsburgh
Visuospatial processing in adults and children with autism	\$30,000	Q2.Other	Carnegie Mellon University
MEG investigation of the neural substrates underlying visual perception in autism	\$127,081	Q2.Other	Massachusetts General Hospital

Project Title	Funding	Strategic Plan Objective	Institution
Coherence and temporal dynamics in auditory cortex of children with autism	\$88,292	Q2.Other	Massachusetts General Hospital
Multimodal brain imaging in autism spectrum disorders	\$165,397	Q2.Other	University of Washington
Testing the effects of cortical disconnection in non-human primates	\$150,000	Q2.Other	The Salk Institute for Biological Studies
Slick and slack heteromers in neuronal excitability	\$53,354	Q2.Other	Yale University
Analysis of the small intestinal microbiome of children with autism	\$132,750	Q2.Other	Massachusetts General Hospital
Atypical late neurodevelopment in autism: A longitudinal MRI and DTI study	\$503,378	Q2.Other	University of Utah
The microstructural basis of abnormal connectivity in autism	\$348,980	Q2.Other	University of Utah
Function and structure adaptations in forebrain development	\$568,834	Q2.Other	University of Southern California
Neurodevelopmental mechanisms of social behavior	\$607,379	Q2.Other	University of Southern California
Neurobiological correlates of language dysfunction in autism spectrum disorders	\$404,389	Q2.Other	Alexian Brothers Medical Center
Neurobiological correlates of language dysfunction in autism spectrum disorders (supplement)	\$8,688	Q2.Other	Alexian Brothers Medical Center
NrCAM, a candidate susceptibility gene for visual processing deficits in autism	\$127,500	Q2.Other	University of North Carolina at Chapel Hill
The cognitive neuroscience of autism spectrum disorders	\$1,335,493	Q2.Other	National Institutes of Health (NIH)
Chemosensory processing in chemical communication	\$287,963	Q2.Other	Florida State University
Cerebellar modulation of frontal cortical function	\$347,643	Q2.Other	University of Memphis
Linguistic perspective-taking in adults with high-functioning autism: Investigation of the mirror neuron system	\$28,000	Q2.Other	Carnegie Mellon University
Sensory processing and integration in autism	\$593,677	Q2.Other	City College of New York
Neural correlates of social exchange and valuation in autism	\$149,985	Q2.Other	Baylor College of Medicine
Optogenetic analysis of circuits for vocal recognition	\$156,000	Q2.Other	Duke University
Social behavior deficits in autism: Role of amygdala	\$93,500	Q2.Other	State University of New York Upstate Medical Center
fMRI studies of cerebellar functioning in autism	\$46,000	Q2.Other	University of Illinois at Chicago
Motor skill learning in autism	\$332,646	Q2.Other	Kennedy Krieger Institute
Novel approaches for investigating the neurology of autism: Detailed morphometric analysis and correlation with motor impairment	\$127,500	Q2.Other	Kennedy Krieger Institute
Behavioral and functional neuroimaging investigations of visual perception and cognition in autistics	\$127,168	Q2.Other	Université de Montréal

Project Title	Funding	Strategic Plan Objective	Institution
Linking local activity and functional connectivity in autism	\$388,825	Q2.Other	San Diego State University
Electrical measures of functional cortical connectivity in autism	\$60,000	Q2.Other	University of Washington
Psychophysiological approaches to the study of autism	\$26,000	Q2.Other	University of Washington
The development of object representation in infancy	\$248,095	Q2.Other	Regents of University of California
Roles of Wnt signaling/scaffolding molecules in autism	\$28,000	Q2.Other	University of California, San Francisco
ACE Center: Disturbances of affective contact: Development of brain mechanisms for emotion (supplement)	\$32,703	Q2.Other	University of Pittsburgh
ACE Center: Disturbances of affective contact: Development of brain mechanisms for emotion	\$154,445	Q2.Other	University of Pittsburgh
MRI measures of neural connectivity in Asperger's disorder	\$208,337	Q2.Other	University of Michigan
Brain circuitry in simplex autism	\$187,500	Q2.Other	Washington University in St. Louis
Identifying brain-based biomarkers for ASD & their biological subtypes	\$1,206,925	Q2.Other	New York State Psychiatric Institute
ACE Center: Imaging the autistic brain before it knows it has autism	\$206,916	Q2.Other	University of California, San Diego
Wiring the brain: From genetic to neuronal networks	\$13,000	Q2.Other	University of North Carolina at Chapel Hill
High-resolution diffusion tensor imaging in mouse models relevant to autism	\$253,735	Q2.Other	University of Pennsylvania
Longitudinal neurodevelopment of auditory and language cortex in autism	\$27,318	Q2.Other	University of Utah
Behavioral pilot for an imaging study of social attention deficits in autism	\$205,200	Q2.Other	Washington University in St. Louis
The neural basis of social cognition	\$325,651	Q2.Other	Indiana University
Precursors of theory of mind in young children with autism	\$79,227	Q2.Other	Carnegie Mellon University
Role of Pam in synaptic morphology and function	\$127,497	Q2.Other	Massachusetts General Hospital
Role of neuroligin in synapse stability	\$127,500	Q2.Other	Oklahoma Medical Research Foundation
Neural substrate of language and social cognition: Autism and typical development	\$47,210	Q2.Other	Massachusetts Institute of Technology
Cortical complexity in children with autism, unaffected siblings, and controls	\$79,000	Q2.Other	Stanford University
A microdevice for immune profiling of children with autism	\$19,000	Q2.Other	University of California, Davis

